

# Radial gripper HGRT-25-A-G2

Part number: 563909

FESTO



## Data sheet

| Feature                                       | Value                                                              |
|-----------------------------------------------|--------------------------------------------------------------------|
| Size                                          | 25                                                                 |
| Max. interchangeability                       | 0.2 mm                                                             |
| Max. gripper jaw angular play ax, ay          | 0.1 deg                                                            |
| Max. opening angle                            | 180 deg                                                            |
| Rotational symmetry                           | 0.2 mm                                                             |
| Pneumatic gripper repetition accuracy         | 0.02 mm                                                            |
| Number of gripper jaws                        | 2                                                                  |
| Mounting position                             | Any                                                                |
| Mode of operation                             | Double-acting                                                      |
| Gripper function                              | Radial                                                             |
| Gripping force backup                         | During closing                                                     |
| Structural design                             | Positively driven motion sequence                                  |
| Position sensing                              | Via proximity switch<br>For inductive sensors                      |
| Operating pressure                            | 4 bar...8 bar                                                      |
| Max. operating frequency of pneumatic gripper | 3 Hz                                                               |
| Min. opening time at 6 bar                    | 443 ms                                                             |
| Min. closing time at 6 bar                    | 301 ms                                                             |
| Operating medium                              | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media      | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)              | 1 - Low corrosion stress                                           |
| LABS (PWIS) conformity                        | VDMA24364-B1/B2-L                                                  |
| Ambient temperature                           | 5 °C...60 °C                                                       |
| Mass moment of inertia                        | 2.33 kgcm <sup>2</sup>                                             |
| Maximum force on gripper jaw Fz, static       | 180 N                                                              |
| Maximum torque on gripper jaw, My static      | 10 Nm                                                              |
| Maximum torque on gripper jaw, Mz static      | 1 Nm                                                               |
| Relubrication interval for guidance elements  | 10 MioCyc                                                          |
| Product weight                                | 610 g                                                              |
| Type of mounting                              | With internal thread and centering sleeve                          |
| Pneumatic connection                          | M5                                                                 |
| Note on materials                             | RoHS compliant                                                     |

| Feature              | Value                                   |
|----------------------|-----------------------------------------|
| Housing material     | Wrought aluminum alloy, smooth-anodized |
| Gripper jaw material | Hardened steel                          |